CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

ORDER NO. 85-99

WASTE DISCHARGE REQUIREMENTS FOR:

SEBASTIANI VINEYARDS SONOMA CITY, COUNTY OF SONOMA

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

- 1. Sebastiani Vineyards, (hereinafter called the Discharger), has submitted a report of waste discharge dated June 19, 1985 and supporting technical reports, dated August 15, 1985 for authorization to discharge wine processing wastewater onto 135 acres of barren property, owned by the Discharger, in Schellville, Sonoma County, California. The location of disposal areas to be used is shown on attachment A, which is hereby made a part of this Order.
- 2. The proposed discharge contains no sanitary waste and consists only of wastewater collected at floor drains and trenches within the winery buildings and in exterior crushing and washdown areas. Discharge is a seasonal operation and concentrated in a six week period between August 15, and November 15.
- 3. An average of 50,000 gallons-per-day of wastewater will be transported and spray discharged from tanker trucks onto the proposed areas shown on attachment A. This operation will be on a six days per week basis with an average of eight truckloads per day. Before it is diverted to the trucks, the wastewater will be first screened with a 0.016 mesh rotary screen and the PH will be adjusted to a range of 6.0 to 8.0 using an automatic PH adjustment device.
- 4. An investigation on the disposal site soil condition and groundwaters reveals that the soils consist of primarily silts and clays with a moderately slow soil percolation rate averaging 0.7 inches per hour. A layer of "hardpan" materials exists at a depth of approximately three feet below ground surface. The groundwater basin at approximately sixty feet below ground surface was tested in 1977 by the Discharger and found to possess high salinity level, it has not been used for domestic or agricultual supply since then. No groundwater sources suitable for domestic water supply appear to exist within a depth of 200 feet from the ground surface in the proposed disposal areas.
- 5. The operational plan submitted by the Discharger specifies operational procedures, anticipated wastewater application rates, and the emergency response plan and is considered adequate. An area of 51.5 acres will be used as the primary disposal site with the remaining of the total of 135 acre areas reserved for used when necessary. A bufffer zone of 100 feet at the perimeter of the field will also be maintained to prevent any surface runoff or airborne moisture from leaving the designated disposal areas.

- 6. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on July 21, 1982. The Basin Plan contains water quality objectives for the Sonoma Valley groundwater basin.
- 7. The beneficial uses of the Sonoma Valley groundwater basin include domestic or municipal supply, industrial process supply, industrial service supply, and agricultural supply.
- 8. The Discharger and interested agencies and persons have been notified of the Board's intent to prescribe requirements for the proposed discharge and have been provided with the opportunity for a public hearing and the opportunity to submit their written views and recommendations.
- 9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the Discharger in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Prohibitions

- 1. The Discharger shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
- 2. Discharge of wastewater to areas other than designated areas shown on attachment A is prohibited.
- 3. Discharge to surface waters or surface water drainage courses is prohibited.
- 4. Discharge to areas within 100 feet of any surface impoundments or flowing stream channels containing surface water is prohibited.
- 5. Discharge of untreated or partially treated wastewater is prohibited.
- 6. Discharge before August 15 or after November 15 of each year is prohibited.
- 7. Discharge during raining or anticipation of immenent raining period is prohibited.
- 8. The discharge shall not cause the degradation of groundwater suitable for the beneficial uses defined in finding 7.

B. Specifications

- 1. Daily discharge of wastewater shall not exceed 120,000 gallons. Total discharge for the season shall not exceed 2,500,000 gallons.
- 2. Disposal areas shall be leveled before each application, without potholes.
- 3. Application of wastewater shall not exceed a BOD loading rate of 600 lb/acre/day.
- 4. The depth of each wastewater application shall not exceed two inches.
- 5. Areas applied shall be allowed to dry for at least 10 days before reapplication.
- 6. There shall be no standing water in any disposal area 24 hours after each application. Every effort shall be made for the removal of the standing water should it occurs.
- 7. Public access to the disposal areas shall be prevented.

C. Provisions

- 1. The Discharger shall comply with the attached self-monitoring program as ordered by the Executive Officer.
- 2. The generally shallow layer of soil existed in the disposal areas may not provide adequate treatment of high organic contents and nitrates in the proposed discharge and accumulation of these organic materials and nitrates may occur. Soil analyses before and after each operation season are therefore included in the attached self-monitoring program to assess potential impacts. The Board will review these analysis reports and, if accumulation of these materials exists to a degree which may cause adverse water quality or odor problems, may revise the requirements or disallow any further discharge.
- 3. The Discharger shall notify the Board at least 3 days before commencement of the discharge in each season.
- 4. The Discharger shall operate in accordance with all provisions of the operational plan approved by the Executive Officer and any revisions made thereafter.
- 5. The Discharger shall file with the Regional Board a report of waste discharge at least 180 days before making any material change or proposed change in the character, location, or volume of the discharge.

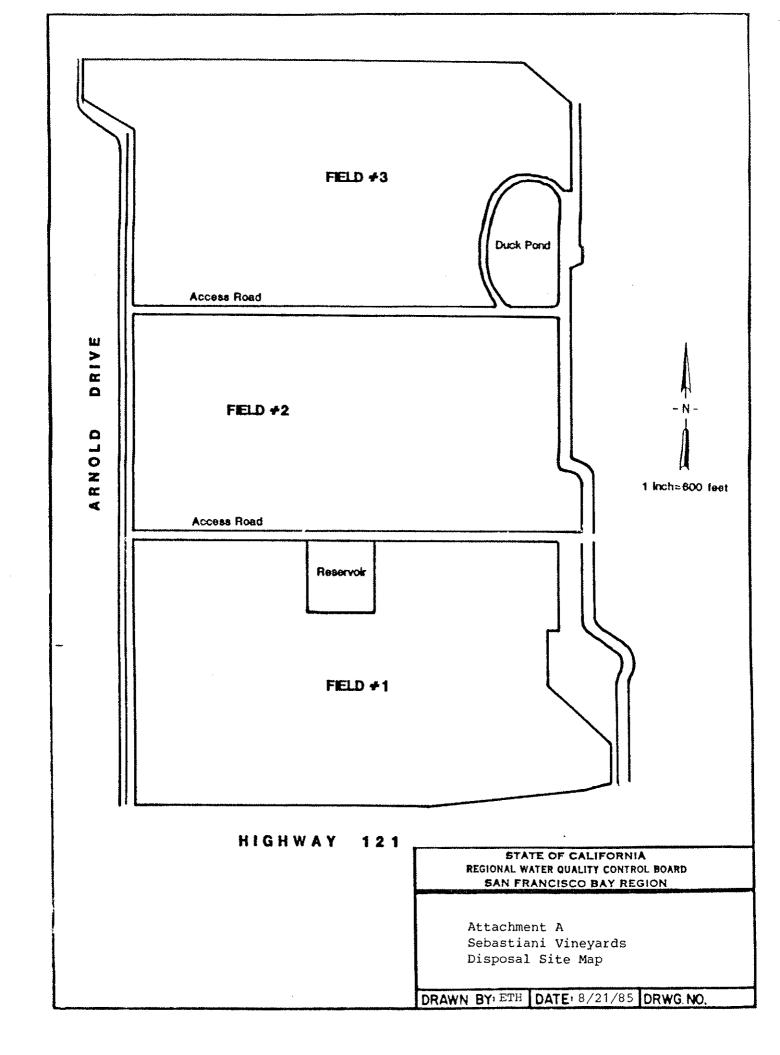
- 6. The Discharger shall permit the Board or its authorized representative in accordance with California Water Code Section 13267(c):
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept,
 - b. Access to copy any records required to be kept under terms and conditions of this Order,
 - c. Inspection of monitoring equipment of records, and
 - d. Sampling of any discharge
- 7. The Discharger shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the requirements.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on September 18, 1985.

Roger B. James Executive Officer

Attachments:

- A. Site Map
- B. Self-Monitoring program



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

FINAL

SELF MONITORING PROGRAM FOR

SONOMA CITY, COUNTY OF SONOMA

ORDER NO. 85-99

CONSISTS OF PART A

EFFECTIVE DATE: September 18, 1985

PART A

1. GENERAL

Reporting responsibilities of Waste Discharges are specified in Sections 13255(a), 13267(b), 13268, 13383 and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

- a. To document compliance with waste discharge requirements and prohibitions established by this Regional Board.
- b. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

2. SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

a. Wastewater

Representive samples of wine processing wastewater discharged to the disposal areas shall be evaluated as follows:

Parameter	Units	Type of measurement	Minimum sampling frequency
Volume of discharge	GPD	Metered	Daily
рН	Classic survival survival	Grab	Daily
5-day BOD	mg/l	Grab	Daily
Suspended Solids	mg/l	Grab	Daily
Total seasonal discharge	Gal	Calculated	Seasonally

b. Soils

Before and after each application season, representative samples of soils in the disposal areas shall be evaluated as follows:

Parameter	<u>Units</u>	Depths
Total Kjeldahl Nitrogen (TKN)	mg/kg	0-6 inch 2 feet 6 feet (or before hardpan)

Nitrate Nitrogen mg/kg 0-6 inch

2 feet

6 feet (or before hardpan)

Organic Carbon % dry weight 0-6 inch

2 feet

6 feet (or before hardpan)

Electrical Conductivity mmhos/cm 0-6 inch

2 feet

6 feet (or before hardpan)

pH ---- 0-6 inch

2 feet

6 feet (or before hardpan)

c. Other Observations

During the operational season, the Discharger shall observe and record the following daily:

- (1). Evidence of Runoff from the designated areas.
- (2). Standing water 24 hours after application.
- (3). Odor resulted from the application.

3. REPORTS TO BE FILED WITH THE REGIONAL BOARD

a. Violation of Requirements

In the event the Discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (1). Maintenance work, power failures, or breakdown of waste treatment equipment, or
- (2). Accidents caused by human error or negligence, or
- (3). Other causes such as acts of nature,

The Discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

b. Self-Monitoring Reports

Written reports shall be filed each calendar month during operation and submitted by the fifteenth day of the following month. Seasonal soil sampling reports can be filed together with or seperate from the regular monthly reports. The reports shall be comprised of the following:

(1). Letter of Transmittal

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

(2). Data and Observation Results

All results analyzed in 2.a and 2.b and observations made in 2.c, including dates and times of sampling or observations.

(3). Map

A map shall accompany the report showing sampling locations of the soil analyses.

- I, Roger B. James, Executive Officer, hereby certify that the foregoing self-monitoring program:
- 1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 84-52.
- 2. Is effective on the date shown below.
- 3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

Roger B. James Executive Officer

Effective Date <u>September 18, 1985</u>